Journal of Wind Engineering and Industrial Aerodynamics, 31 (1988) 357
Elsevier Science Publishers B.V., Amsterdam — Printed in The Netherlands

Journal of Wind Engineering and Industrial Aerodynamics

Contents Volume 31 (1988)

Vol. 31 No. 1

Experimental verification of the probability distribution of sampled wind spectra
P.H.W. Prenninger, G.I. Schuëller (Innsbruck, Austria) and Y.K. Lin (Boca Raton, FL, U.S.A.) 1
Flow interference between four equispaced cylinders when subjected to a cross flow
A.T. Sayers (Rondebosch, South Africa) 9
Dynamic response of a triangular building model in an atmospheric boundary layer
T. Balendra and G.K. Nathan (Singapore) 29
Aerodynamic forces acting on two square prisms placed vertically in a turbulent boundary layer
H. Sakamoto and H. Haniu (Kitami, Japan) 41
High sided articulated road vehicles in strong cross winds
C.J. Baker (Nottingham, Gt. Britain) 67
Effect of varying wind direction on exhaust gas dilution
E.H. Chui and D.J. Wilson (Edmonton, Alb., Canada) 87
Sensitivity of the CAARC standard building model to geometric scale and turbulence
A.M. Goliger and R.V. Milford (Pretoria, South Africa) 105

Short Communication

The cycloidal turbine as an air impeller
A.C. Davis (Harrogate, Gt. Britain) 125

Book Review 129

Announcement 131

Vol. 31, Nos. 2-3

Hot-wire measurements of the flowfield in the vicinity of a HAWG rotor
A. Papaconstantinou and G. Bergeles (Athens, Greece) 133
Turbulent boundary layer profiles over uniform rough surfaces
B.L. Sill (Clemson, SC, U.S.A.) 147
Wind loads on circular storage bins, silos and tanks: I. Point pressure measurements on isolated structures
P.A. MacDonald, K.C.S. Kwok (Sydney, N.S.W., Australia) and J.D. Holmes (Highett, Vic., Australia) 165
Video images of smoke dispersion in the near wake of a model building. Part I. Temporal and spatial scales of vortex shedding
A.H. Huber (Triangle Park, NC, U.S.A.) 189
Subsonic flow over a two-dimensional obstacle immersed in a turbulent boundary layer on a flat

surface
V. Atli (Istanbul, Turkey) 225
Numerical prediction of wind loads on buildings
E.H. Mathews, C.P. Crosby, J.A. Visser and J.P. Meyer (Pretoria, South Africa) 241
Worst suctions near edges of flat rooftops with parapets
R.J. Kind (Ottawa, Ont., Canada) 251
Wind pressures on buildings with appurtenances
T. Stathopoulos and X. Zhu (Montreal, Que., Canada) 265
3-D numerical simulation of airflow around a cubic model by means of the k–ϵ model
S. Murakami and A. Mochida (Tokyo, Japan) 283
An experimental investigation of blade element theory for wind turbines. Part 2. Phase-locked averaged results
P.D. Clausen and D.H. Wood (Newcastle, N.S.W., Australia) 305
Wind climate for Madras Harbour, India
V. Sundar and P.N. Ananth (Madras, India) 323

Short Communications

Full-scale comparison of a wind-tunnel simulation of windy locations in an urban area
R.H. Grant (West Lafayette, IN, U.S.A.), G.M. Heisler (State College, PA, U.S.A.) and L.P. Herrington (Syracuse, NY, U.S.A.) 335
A note on the geostrophic drag coefficient for rough, smooth and intermediate turbulent flow
D. Myrhaug (Trondheim, Norway) 343

Note

Calculation of joint acceptance function for line-like structures
C. Dyrbye and S. Ole Hansen (Lyngby, Denmark) 351

Author Index 355
Contents of Volume 31 357